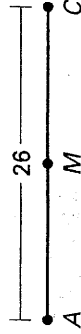


Chapter Test A

For use after Chapter 2

 M is the midpoint of the segment. Find the segment lengths.

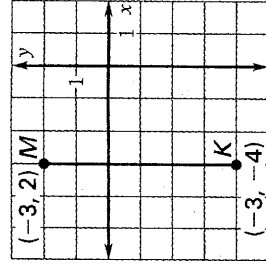
1. Find
- AM
- and
- MC
- .



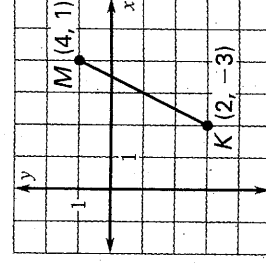
2. Find
- MT
- and
- RT
- .

Find the coordinates of the midpoint of \overline{KM} .

$$\frac{-3 + -3}{2}, \frac{2 + -4}{2}$$



4.



$$\frac{2 + 4}{2}, \frac{1 + -3}{2}$$

Answers

1. $AM = 13$ $AC = 26$

2. $MT = 20.5$ $RT = 41$

3. $(-3, -1)$

4. $(3, -1)$

5. $39^\circ + 39^\circ$

6. $\angle TSU = 49^\circ$ $\angle RSU = 98^\circ$

7. $x = 22$

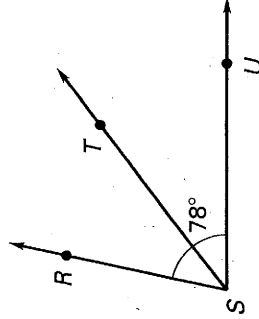
8. $y = 46$

9. Complementary, nonadjacent

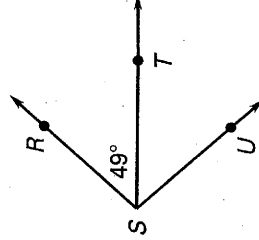
10. Supplementary adjacent

 \overleftrightarrow{ST} bisects $\angle RSU$. Find the angle measures.

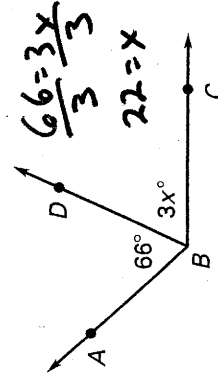
5. Find
- $m\angle RST$
- and
- $m\angle TSU$
- .



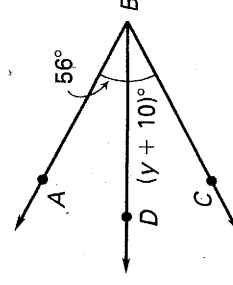
6. Find
- $m\angle TSU$
- and
- $m\angle RSU$
- .

 \overleftrightarrow{BD} bisects $\angle ABC$. Find the value of the variable.

7.



8.



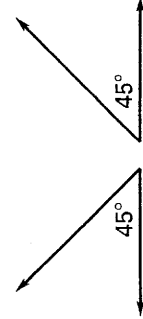
$$y + 10 = 56$$

$$-10 \quad -10$$

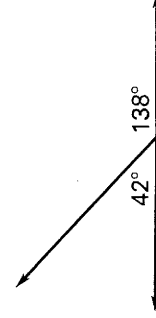
$$y = 46$$

Determine whether the angles are complementary, supplementary, or neither. Then tell whether they are adjacent or nonadjacent.

9.



10.



NAME _____

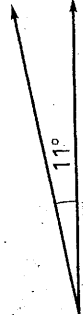
DATE _____

Chapter Test A

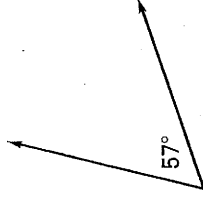
For use after Chapter 2

Find the measure of a complement and supplement of the angle.

11.

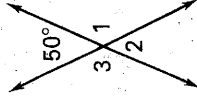


12.

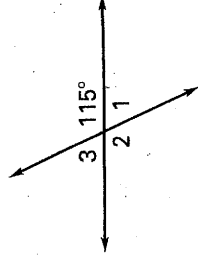


In Exercises 13 and 14, find $m\angle 1$, $m\angle 2$, and $m\angle 3$.

13.



14.



Answers

11. $\text{comp} = 79^\circ$ $\text{supp} = 169^\circ$

12. $\text{comp} = 33^\circ$ $\text{supp} = 123^\circ$

13. $\angle 1 = 130^\circ$ $\angle 2 = 50^\circ$ $\angle 3 = 130^\circ$

14. $\angle 1 = 65^\circ$ $\angle 2 = 115^\circ$ $\angle 3 = 65^\circ$

15.

See left.

16.

See left.

17.

See left.

18.

See left.

19.

See left.

20.

21.